



U.S. Patent No. 6,758,637
Atty Docket I084 1200

IN THE U.S. PATENT AND TRADEMARK OFFICE

Application No.: 09/873,331	Patent No. 6,758,637 ^{#2} Issued: July 6, 2004
Application of: GATI	Group Art Unit: 3712
Filing Date: 6/5/2001	Examiner: Jacob K. Ackun
Title: CUTTING TOOL ASSEMBLY	Docket No. I084 1200 Customer No. 26158

CORRECTION OF ERROR IN PATENT

Under 37 CFR 1.322

Certificate of Correction Of Office Mistake

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Certificate
AUG 31 2004
of Correction

Sir:

A Certificate of Correction is requested be issued for this U.S. Patent. Attached hereto is a Form PTO/SB/44 which provides the changes as they should be listed.

To support the changes and to support the claim that the error is on the part of the Patent Office, the following explanation and exhibits are provided:

- (1) Copy of the amendment filed by facsimile on March 11, 2004, which resulted in the Notice of Allowance on March 25, 2004. Amended Claim 1 in the March 11, 2004 Amendment is duplicated in the attached from PTO/SB/44.
- (2) In the published patent no. 6,758,637, claim 1 omits the third line of Amended Claim 1, which read – (“portion being provided with a cutting edge; the central body portion being provided with upper”).

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being sent by U.S. first class mail to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on August 25, 2004.

14 Pages

Nanda K. Alapati

AUG 31 2004

The undersigned attorney for applicant(s) believes that the foregoing supports the claim that the Patent Office is in error.

No further fee is believed to be due for this submission. Should a fee be required, the Commissioner is authorized to charge any such fee to Womble Carlyle's Deposit Account No. 09-0528.

Respectfully Submitted,

Date: August 25, 2004



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Amendment – 09/873,331

IN THE U.S. PATENT AND TRADEMARK OFFICE

Application of: GATI	Group Art Unit: 3712
Application No.: 09/873,331	Examiner: Jacob K. Ackun
Filing Date: June 5, 2001	Old Atty Dkt. No. 10236-0027 New Atty Dkt. No. 1084 1200
Title: Cutting Tool Assembly	

Response to Notice of Non-Complaint Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir or Madam:

In response to the Notice of Non-compliant Amendment mailed March 2, 2004, and further to Office Action mailed December 23, 2003, please enter the following amendments and remarks:

Amendments to the claims begin on Page 2.

Remarks begin on page 9.

CERTIFICATE OF FACSIMILE TRANSMITTAL

I hereby certify that this correspondence is being sent to the central facsimile number, 703-872-9306, for patent application related correspondence on March 11, 2004.

9 Pages

Nanda K. Alapati

Amendments to the Claims

1. (Canceled)

2. (Canceled)

3. (Currently Amended) ~~A cutting insert in accordance with Claim 2,~~ A cutting insert comprising a central body portion extending between two opposite end portions, each end portion being provided with a cutting edge; the central body portion being provided with upper and lower clamping abutment surfaces with first and second side surfaces extending therebetween; at least one of the first and second side surfaces being provided with an axial location member, the axial location member being a protrusion, wherein
the protrusion is square shaped.

4. (Currently Amended) A cutting insert in accordance with Claim ~~[[2]]~~ 3, having a 180° rotational symmetry about an axis perpendicular to a longitudinal plane (P) of the cutting insert and passing through the center of the protrusion.

5. (Currently Amended) ~~A cutting insert in accordance with Claim 2,~~ A cutting insert comprising a central body portion extending between two opposite end portions, each end portion being provided with a cutting edge; the central body portion being provided with upper and lower clamping abutment surfaces with first and second side surfaces extending therebetween; at least one of the first and second side surfaces being provided with an axial location member, the axial location member being a protrusion, wherein

the upper and lower clamping abutment surfaces are sloped, defining therebetween a variable distance so that when the cutting insert is viewed in an end view the distance between the upper and lower clamping abutment surfaces is a maximum at the first side surface and a minimum at the second side surface.

6. (Currently Amended) ~~A cutting insert in accordance with Claim 2,~~ A cutting insert comprising a central body portion extending between two opposite end portions, each end portion being provided with a cutting edge; the central body portion being provided with upper and lower clamping abutment surfaces with first and second side surfaces extending therebetween; at least one of the first and second side surfaces being provided with an axial location member, the axial location member being a protrusion, wherein

the upper and lower clamping abutment surfaces have the form of V-shaped protrusions.

7. (Currently Amended) ~~A cutting insert in accordance with Claim 2,~~ A cutting insert comprising a central body portion extending between two opposite end portions, each end portion being provided with a cutting edge; the central body portion being provided with upper and lower clamping abutment surfaces with first and second side surfaces extending therebetween; at least one of the first and second side surfaces being provided with an axial location member, the axial location member being a protrusion, wherein

the upper and lower clamping abutment surfaces have the form of V-shaped grooves.

8. (Canceled)

9. (Previously Amended) A cutting tool assembly comprising:

a cutting insert holder; and

a cutting insert;

the cutting insert holder comprising:

an upper clamping jaw having an upper clamping surface;

a lower base jaw having a lower clamping surface;

an insert holder inner side surface extending between the upper and lower clamping surfaces; and

an insert pocket bound on two opposite sides by the upper and lower clamping surfaces and bound on a third side extending between the two opposite sides by the insert holder inner side surface; the insert holder inner side surface being provided with a positioning member;

the cutting insert comprising:

a central body portion extending in a longitudinal direction of the cutting insert between two opposite end portions, each end portion being provided with a cutting edge; the central body portion being provided with upper and lower clamping abutment surfaces with first and second side surfaces extending therebetween; at least one of the first and second side surfaces being provided with an axial location member;

wherein the upper clamping abutment surface is configured to abut the upper clamping surface; the lower clamping abutment surface is configured to abut the lower clamping surface and the positioning member is configured to engage the axial location member to thereby fix the axial location of the cutting insert; and

wherein the axial location member is a protrusion and the positioning member is a rear surface of a recess in the insert holder inner side surface, the protrusion and the

recess being shaped so as to permit sliding insertion and removal of the cutting insert into the insert holder, along the longitudinal direction of the cutting insert.

10. (Previously Amended) A cutting tool assembly in accordance with Claim 9, wherein the protrusion is square-shaped.

11. (Previously Amended) A cutting tool assembly in accordance with Claim 9, wherein the cutting insert has a 180° rotational symmetry about an axis perpendicular to a longitudinal plane (P) of the cutting insert and passing through the center of the protrusion.

12. (Previously Amended) A cutting tool assembly in accordance with Claim 9, wherein the upper and lower clamping abutment surfaces are sloped, defining therebetween a variable distance, so that when the cutting insert is viewed in an end view the distance between the upper and lower clamping abutment surfaces is a maximum at the first side surface and a minimum at the second side surface and the upper and lower clamping surfaces of the upper clamping jaw and the lower base jaw, respectively, are matchingly sloped.

13. (Previously Amended) A cutting tool assembly in accordance with Claim 9, wherein the upper and lower clamping abutment surfaces have the form of V-shaped protrusions and the upper and lower clamping surfaces of the upper clamping jaw and the lower clamping jaw, respectively, have the form of matching V-shaped grooves.

14. (Previously Amended) A cutting tool assembly in accordance with Claim 9, wherein the upper and lower clamping abutment surfaces have the form of V-shaped grooves and the upper and lower clamping surfaces of the upper clamping jaw and the lower clamping jaw, respectively, have the form of matching V-shaped protrusions.

15. (Previously Added) A cutting tool assembly in accordance with Claim 9, wherein the protrusion is spaced apart from the upper and lower clamping abutment surfaces.

16. (Previously Added) A cutting tool assembly in accordance with Claim 9, wherein both the first and second side surfaces of the cutting insert are provided with a protrusion.

17. (Currently Amended) A cutting insert in accordance with Claim [[2]] 3, wherein the protrusion is spaced apart from the upper and lower clamping abutment surfaces.

18. (Currently Amended) ~~A cutting insert in accordance with Claim 2,~~ A cutting insert comprising a central body portion extending between two opposite end portions, each end portion being provided with a cutting edge; the central body portion being provided with upper

and lower clamping abutment surfaces with first and second side surfaces extending therebetween; wherein

both the first and second side surfaces are provided with axial location members, each axial location member being a protrusion.

19. (Previously Added) A cutting insert comprising a central body portion extending in a longitudinal direction of the cutting insert between two opposite end portions, each end portion being provided with a cutting edge; the central body portion being provided with upper and lower clamping abutment surfaces with first and second side surfaces extending therebetween; at least one of the first and second side surfaces being provided with an axial location member formed as an axially directed recess open in said longitudinal direction.

20. (Previously Added) A cutting insert in accordance with Claim 19, wherein the axially directed recess is spaced apart from the upper and lower clamping abutment surfaces.

21. (Previously Added) A cutting insert in accordance with Claim 19, wherein both the first and second side surfaces are provided with an axially directed recess.

22. (Previously Added) A cutting insert in accordance with Claim 19, wherein said at least one of the first and second side surfaces is provided with two axially directed recesses facing in opposite directions.

23. (Previously Added) A cutting tool assembly comprising:
a cutting insert holder; and
a cutting insert;
the cutting insert holder comprising:
an upper clamping jaw having an upper clamping surface;
a lower base jaw having a lower clamping surface;
an insert holder inner side surface extending between the upper and lower clamping surfaces; and
an insert pocket bound on two opposite sides by the upper and lower clamping surfaces and bound on a third side extending between the two opposite sides by the insert holder inner side surface; the insert holder inner side surface being provided with a positioning member;
the cutting insert comprising:

a central body portion extending in a longitudinal direction of the cutting insert between two opposite end portions, each end portion being provided with a cutting edge; the central body portion being provided with upper and lower clamping abutment surfaces with first and second side surfaces extending therebetween; at least one of the first and second side surfaces being provided with an axial location member;

wherein the upper clamping abutment surface is configured to abut the upper clamping surface; the lower clamping abutment surface is configured to abut the lower clamping surface and the positioning member is configured to engage the axial location member to thereby fix the axial location of the cutting insert; and

wherein the axial location member is an axially directed recess open in said longitudinal direction and the positioning member is a protrusion on the insert holder inner side surface, the axially directed recess and the protrusion being shaped so as to permit sliding insertion and removal of the cutting insert into the insert holder, along said longitudinal direction.

24. (Previously Amended) A cutting tool assembly in accordance with Claim 23, wherein the axially directed recess is spaced apart from the upper and lower clamping abutment surfaces.

25. (Previously Amended) A cutting tool assembly in accordance with Claim 23, wherein both the first and second side surfaces are provided with an axially directed recess.

26. (Previously Amended) A cutting tool assembly in accordance with Claim 23, wherein said at least one of the first and second side surfaces is provided with two axially directed recesses facing in opposite directions.

27. (Previously Added) A cutting insert comprising a central body portion extending in a longitudinal direction of the cutting insert between two opposite end portions, each end portion being provided with a cutting edge; the central body portion being provided with sloped upper and lower clamping abutment surfaces which define therebetween a variable distance, the sloped upper and lower clamping abutment surfaces having first and second side surfaces extending therebetween; at least one of the first and second side surfaces being provided with an axial location member, wherein the axial location member is shaped so as to permit insertion of the cutting insert along said longitudinal direction.

28. (Previously Added) A cutting insert in accordance with Claim 27, wherein, when the cutting insert is viewed in an end view, the distance between the upper and lower clamping

abutment surfaces is a maximum at the first side surface and a minimum at the second side surface.

29. (Previously Added) A cutting insert in accordance with Claim 27, wherein the upper and lower clamping abutment surfaces have the form of V-shaped protrusions.

30. (Previously Added) A cutting insert in accordance with Claim 27, wherein the upper and lower clamping abutment surfaces have the form of V-shaped grooves.

31. (Previously Added) A cutting tool assembly comprising:

a cutting insert holder; and

a cutting insert;

the cutting insert holder comprising:

an upper clamping jaw having an upper clamping surface;

a lower base jaw having a lower clamping surface;

an insert holder inner side surface extending between the upper and lower clamping surfaces; and

an insert pocket bound on two opposite sides by the upper and lower clamping surfaces and bound on a third side extending between the two opposite sides by the insert holder inner side surface; the insert holder inner side surface being provided with a positioning member;

the cutting insert comprising:

a central body portion extending in a longitudinal direction of the cutting insert between two opposite end portions, each end portion being provided with a cutting edge; the central body portion being provided with sloped upper and lower clamping abutment surfaces which define therebetween a variable distance, the sloped upper and lower clamping abutment surfaces having first and second side surfaces extending therebetween; at least one of the first and second side surfaces being provided with an axial location member,

wherein the upper clamping abutment surface is configured to abut the upper clamping surface; the lower clamping abutment surface is configured to abut the lower clamping surface and the positioning member is configured to engage the axial location member to thereby fix the axial location of the cutting insert; and

wherein the axial location member and the positioning member are shaped so as to permit sliding insertion and removal of the cutting insert into the insert holder, along said longitudinal direction.

32. (Previously Added) A cutting insert in accordance with Claim 31, wherein, when the cutting insert is viewed in an end view, the distance between the upper and lower clamping abutment surfaces is a maximum at the first side surface and a minimum at the second side surface.

33. (Previously Added) A cutting insert in accordance with Claim 31, wherein the upper and lower clamping abutment surfaces have the form of V-shaped protrusions.

34. (Previously Added) A cutting insert in accordance with Claim 31, wherein the upper and lower clamping abutment surfaces have the form of V-shaped grooves.

REMARKS

The present submission is in response to the Notice of Non-Complaint amendment mailed March 2, 2004, in response to an Amendment filed February 20, 2004. The Notice of Non-Compliant amendment indicated that February 20, 2004 amendment did not present a complete listing of all claims.

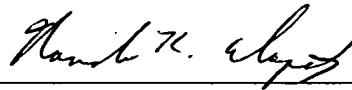
The present submission is believed to include a complete listing of all claims, including canceled claims 1, 2 and 8.

Reconsideration of the application is requested. Claims 3-7 and 9-34 are believed to be in allowable form and define over the prior art of record. An early notice of allowance is requested so that the application may proceed to issue.

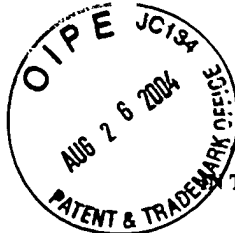
No fee is believed to be due for this submission. Should a fee be required, the Commissioner is authorized to charge any such fee to Womble Carlyle's Deposit Account No. 09.0528.

Respectfully Submitted,

Date: March 11, 2004



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Amendmen. J9/873,331

THE U.S. PATENT AND TRADEMARK OFFICE

Application of: GATI	Group Art Unit: 3712
Application No.: 09/873,331	Examiner: Jacob K. Ackun
Filing Date: June 5, 2001	Old Atty Dkt. No. 10236-0027 New Atty Dkt. No. 1084 1200
Title: Cutting Tool Assembly	

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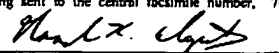
Commissioner for Patents
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Alexandria, VA 22313-1450

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9 Pages	 Nanda K. Alapati

-1-

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MAR 11 2004 10:05 7039182265

#4136 P.CC:

Amendment - 09/873,331

IN THE U.S. PATENT AND TRADEMARK OFFICE

Application of: GATI	Group Art Unit: 3712
Application No.: 09/873,331	Examiner: Jacob K. Ackum
Filing Date: June 5, 2001	Old Atty Dkt. No. 10236-0027 New Atty Dkt. No. 1084 1200
Title: Cutting Tool Assembly	

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CERTIFICATE OF FACSIMILE TRANSMITTAL

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9 Pages

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WASHINGTON 109330-1

-1-

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,758,637 *B2*

DATED : July 6, 2004

INVENTOR(S) : Uzi Gati

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 1 should read as follows:

1. A cutting insert comprising a central body portion extending between two opposite end portions, each end portion being provided with a cutting edge; the central body portion being provided with upper and lower clamping abutment surfaces with first and second side surfaces extending therebetween; at least one of the first and second side surfaces being provided with an axial location member, the axial location member being a protrusion, wherein

the protrusion is square shaped.

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PATENT NO.: 6,758,637 *B2*

AUG 31 2004

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